WHAT IS CLAIMED IS:

1   1.   A communication system optimized for multipart responses, the
2   communication system comprising:
3   a client adapted to request content from the communication system, the
4   request for content including an indicator that a multipart response is desired;
5   a proxy coupled to receive the request for content and adapted to access the
6   communication system for the requested content; and
7   a server coupled to the proxy to provide the requested content, wherein the
8   proxy is adapted to provide a single part response to the client, the single part response
9   including an indicator to signal a subsequent multipart response that is related to the single
10   part response.

1   2.   The communication system according to Claim 1, wherein the
2   request for content comprises a HyperText Transfer Protocol (HTTP) request having a
3   request header.

1   3.   The communication system according to Claim 2, wherein the
2   request header includes the indicator that a multipart response is desired.

1   4.   The communication system according to Claim 1, wherein the single
2   part response comprises a HyperText Transfer Protocol (HTTP) response having a
3   response header.

1   5.   The communication system according to Claim 4, wherein the
2   response header includes the indicator that a multipart response will be subsequently
3   transmitted.

1   6.   A method for multipart response optimization, comprising:

2   generating a first request for content, the first request including a multipart

3 response expectation indicator;

4   generating a first response to the first request for content, the first response

5 including a multipart response capability;

6   generating a second request for content; and

7   generating a second response to the second request for content, wherein the

8 second response includes a format that is indicative of the multipart response capability

9 indicator.

1   7.   The method according to Claim 6, wherein a lack of multipart

2 response capability is signalled by an absence of a multipart response capability indicator.

1   8.   The method according to Claim 7, wherein the second request for

2 content is one of a plurality of parallel requests for single part content.

1   9.   The method according to Claim 6, wherein support for the multipart

2 response capability is signalled by a multipart response capability indicator.

1   10.   The method according to Claim 9, wherein the second request for

2 content is a single request for multipart content.

1   11.   A mobile terminal wirelessly coupled to a network which includes a

2 proxy coupled to the network, the mobile terminal comprising:

3   a memory capable of storing at least a multipart header module;

4   a processor coupled to the memory and configured by the multipart header

5 module to generate content requests having a multipart response expectation indicator; and

6   a transceiver configured to facilitate a content response exchange with the

7 proxy, wherein the multipart header module is further configured to search the content

8 response for a multipart capability indicator.

1   12.   The mobile terminal according to Claim 11, wherein existence of the

2 multipart capability indicator in the content response precludes generation of parallel

3 content requests from the processor.

1   13.   A computer-readable medium having instructions stored thereon

2 which are executable by a mobile terminal for requesting optimized multipart response

3 handling in a network by performing steps comprising:

4   supplying a multipart expectation indicator in a content request;

5   receiving a content response to the content request;

6   examining the content response for a multipart capability indication; and

7   precluding transmission of parallel content requests when the multipart

8 capability indication exists within the content response.

1   14.   A proxy coupled to a network to detect multipart content requests,

2 the proxy comprising:

3   means for receiving a first content request;

4   means for determining the existence of a multipart response expectation

5 indicator in the first content request;

6   means for generating a single part response in response to the existence of

7 the multipart response expectation indicator in the first content request; and

8   means for generating a multipart response after a second content request is

9 received, the multipart response being related to the single part response.

1   15.   A computer-readable medium having instructions stored thereon

2 which are executable by a proxy by performing steps comprising:

3   receiving a first content request;

4   determining the existence of a multipart response expectation indicator in

5 the first content request;

6   generating a single part response in response to the existence of the

7 multipart response expectation indicator in the first content request; and

8   generating a multipart response after a second content request is received,

9 the multipart response being related to the single part response.